

INTERNATIONAL SEARCH REPORT

International Application No

PCT/US2004/040088

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 C10G17/06 C10G67/08

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 C10G

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ, API Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2 984 617 A (CHELLIS ITALO V. DE ET AL) 16 May 1961 (1961-05-16) column 2, lines 42-48 column 3, lines 46-61	1-31
X	US 3 123 550 A (SKOMOROSKI ROBERT M ET AL) 3 March 1964 (1964-03-03) claims 1,3; example 1 column 2, lines 52-63	1-31
A	US 3 749 666 A (LOCKWOOD W,US ET AL) 31 July 1973 (1973-07-31) column 1, line 71 - column 2, line 17 column 2, lines 40-45 column 3, lines 20-27	1-31
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☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents:

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the International filing date
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- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the International filing date but later than the priority date claimed

- *T* later document published after the International filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
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- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
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Date of the actual completion of the International search

15 March 2005

Date of mailing of the International search report

24/03/2005

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 3 305 480 A (MILLS IVOR W ET AL) 21 February 1967 (1967-02-21) column 1, lines 37-41 column 1, line 72 - column 2, line 4 column 2, lines 12-28 -----	1-31

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/US2004/040088

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 2984617	A	16-05-1961	NONE	
US 3123550	A	03-03-1964	NONE	
US 3749666	A	31-07-1973	NONE	
US 3305480	A	21-02-1967	BE 672470 A	17-05-1966
			AT 284316 B	10-09-1970
			CH 481206 A	15-11-1969
			DE 1545367 A1	22-01-1970
			FR 1454738 A	11-02-1966
			LU 49873 A1	18-05-1967
			NL 6515034 A	23-05-1966